UNITED STATES DISTRICT COURT EASTERN DISTRICT OF MICHIGAN SOUTHERN DIVISION

UNITED STATES OF AMERICA,

Plaintiff,

vs.

Civil Action No. 77-71100 Hon. John Feikens

STATE OF MICHIGAN,

Defendant, Cross-Plaintiff and Cross-Defendant,

CITY OF DETROIT, a Municipal Corporation, and DETROIT WATER AND SEWERAGE DEPARTMENT,

Defendants and Cross-Plaintiffs,

vs.

ALL COMMUNITIES AND AGENCIES UNDER CONTRACT WITH THE CITY OF DETROIT FOR SEWAGE TREATMENT SERVICES,

vs.

THE FOOD AND ALLIED INDUSTRIES COMMITTEE OF METROPOLITAN DETROIT, a voluntary, non-profit, unincorporated association, and its Members

vs.

THE GREATER DETROIT CHAMBER OF COMMERCE, a Michigan non-profit corporation, and its Members.

NOTICE OF SUBMISSION OF PROPOSED SUPPLEMENTAL ORDER RE: MATHEMATICAL MODEL OF SUBURBAN COLLECTION AND INTERCEPTOR SYSTEMS

TO: All Counsel Of Record

Please take notice that a proposed Supplemental Order Re:

1532

Mathematical Model of Suburban Collection And Interceptor Systems has been submitted to the Court for entry pursuant to E.D. Mich. Local Rule 58.1(c). A copy of the proposed order is attached. Unless you file written objections to the entry of the proposed order within seven days from service of this notice on you, the proposed Order will be presented to the Court for signing and entry.

Dated: August 3, 1994

Róbert C. Walter P30524

Assistant Corporation Counsel

1006 Water Board Bldg.

735 Randolph St.

Detroit, Mi 48226-2830

313-224-4752

UNITED STATES DISTRICT COURT EASTERN DISTRICT OF MICHIGAN SOUTHERN DIVISION

UNITED STATES OF AMERICA,

Plaintiff and Counter-Defendant,

and

THE WAYNE COUNTY DEPARTMENT OF HEALTH, AIR POLLUTION CONTROL DIVISION,

Civil Action No. 77-71100 Hon. John Feikens

Plaintiff,

v.

STATE OF MICHIGAN,

Defendant, Counter-Plaintiff and Cross-Plaintiff,

v.

CITY OF DETROIT, a municipal corporation, and DETROIT WATER AND SEWERAGE DEPARTMENT,

Defendants and Cross-Defendants,

v.

ALL COMMUNITIES AND AGENCIES UNDER CONTRACT WITH THE CITY OF DETROIT FOR SEWAGE TREATMENT SERVICES,

SUPPLEMENTAL ORDER
RE: MATHEMATICAL
MODEL OF SUBURBAN
COLLECTION AND
INTERCEPTOR SYSTEMS

v.

THE DETROIT AREA LAUNDRY POLLUTION CONTROL GROUP, a voluntary, non-profit, unincorporated association, AND ITS MEMBERS,

v.

THE FOOD AND ALLIED INDUSTRIES
COMMITTEE OF METROPOLITAN DETROIT,
a voluntary non-profit, unincorporated
association, AND ITS MEMBERS,

Intervening Rate Challengers.

SUPPLEMENTAL ORDER RE: MATHEMATICAL MODEL OF SUBURBAN COLLECTION AND INTERCEPTOR SYSTEMS

At a session of the Court held at Detroit

on:	
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Present: Hon John Feikens

On February 22, 1991 this Court entered an order supporting the development of a mathematical model for the major components of Detroit's combined sewer collection and interceptor system. Subsequently, the City of Detroit amended its Contract No. CS-1049 with Camp, Dresser and McKee (CDM) to expand the scope of work to include modeling of suburban portions of the collection and interceptor system. A Technical Task Force was created to oversee the project and to assist the Detroit Water and Sewerage Department (DWSD) in directing the consultants in the completion of this work.

The prior order of this Court established a maximum budget for the work at \$1,800,000 based on the tasks presented in CDM's November 13, 1990 proposal, and specified that the costs for the work were to be apportioned initially to all DWSD customers as a "common to all cost", provided that the costs be subject to adjustment in connection with the "look-back" analysis.

On January 10, 1994 a presentation of the preliminary results of the modeling work was presented to this Court by DWSD and the project consultant, CDM. That presentation included a recommendation that additional work be undertaken to further evaluate control alternatives for combined sewer overflows (CSO's), and that the participation of the Technical Task Force be extended.

Based upon the recommendation of Dr. Bulkley, the Court finds

that the City of Detroit Water and Sewerage Department acting through its Board of Water Commissioners may enter into an expanded contractual relationship with Camp, Dresser & McKee by amendment of Contract CS-1049, the terms and conditions of which may be negotiated by DWSD and CDM to complete a full and thorough evaluation of CSO control alternatives. A description of the tasks to be included in this amendment is attached to this Order as Exhibit A. The additional costs for this work shall not exceed \$450,000. Consistent with this Court's prior Order of February 22, 1991 the cost thereof shall be paid by DWSD from system revenues, and shall be allocated on a common to all basis among system customers, subject to reallocation in the "look-back analysis" performed for the time period in which such costs are incurred.

The allocation of costs for the tasks identified in the amendment to the CDM contract, CS-1049, as "common to all costs" does not constitute an understanding or agreement by Detroit or any DWSD sewage disposal district, or customer municipality that any other costs that may be incurred in the future by DWSD for the design or construction of CSO facilities should be similarly allocated in any future rates. The Court's prior Order of February 22, 1991 is continued in effect and all costs incurred under Contract CS-1049 pursuant to the February 22, 1991 Order shall remain subject to reallocation at such time as the work authorized by this Order is completed and information required for such reallocation is available.

Nothing in this order shall be construed as an agreement by

any party to this litigation to the legal force or effect of the study, or the results or recommendations made or to be made by CDM therein, nor by consenting to this order does any party to this litigation waive any objection it may have to (1) the legal status or standing of the Technical Task Force; (2) any of the assumptions, proposals or recommendations made therein including but not limited to the concept of review and approval by the Task Force members and/or the DNR of any report generated by CDM. Each and every party to these proceedings preserves unimpaired any objection it may have to any aspect of the CDM work referred herein.

Based on the recommendation of Dr. Bulkley, the Court directs the City of Detroit Water and Sewerage Department to retain custody of the completed model along with any appropriate software and reports, and ensure that the model is kept up to date and maintained in good working order for continued use and application to the benefit of the entire sewer collection system. To that end, the Technical Task Force shall be maintained and convened from time to time as may be necessary to assist DWSD in the continued application and utilization of the model.

JOHN FEIKENS U.S. District Judge

C:\Walter\usa

CDM

CAMP DRESSER & MCKEE

One Woodward Avenue, Suite 1500 Deepel, Microgan 48226 313 903-1313

January 19, 1994

Mr. Gary Fujita
Assistant Director of Wastewater Operations
9300 Jefferson
Detroit, Michigan 48209

Re:

DWSD Collection System Modeling CS-1049 Amendment 4 Estimates

Dear Mr. Fujita:

We appreciate the opportunity we had on December 22, 1992 to review the project status and to discuss future activities on the GDRS CSO Modeling project, CS-1049. We feel that substantial progress has been made to date on the project and that the project has led to a better understanding of the operation of the system, including the impacts of the suburban influences on the City of Detroit collection and treatment system.

As you requested at that meeting, we have made revisions to the proposed Amendment 4 of CS-1049. The updated Scope of Services and the estimated level of effort are attached to this letter. This scope includes the groups of activities described in the table on the next page, with the costs summarized in the attached table.

The original CS-1049 contract was signed in 1988. This contract, and two subsequent amendments, provided an analysis of the DWSD collection system. This analysis focused on the City of Detroit system only with simplifying assumptions concerning the impacts of the suburban tributary areas. Amendment 3 of CS-1049 was ordered by the Federal Court in 1991 to address concerns raised by these suburban customers relative to the validity of the computer model and appropriately managing the interplay between the City of Detroit and these suburban customers.

Also attached to this letter is a table that provides detailed information on the level of effort and the specific personnel needed for each of these activities. This table includes the level of effort needed by both CDM and Applied Sciences, Inc. Billing rates are supplied at the top of the table. Total hours and dollars are supplied at the bottom and right of the table. The activity costs are summarized in the table on the following page. Note that the total upper limit for these scope items outlined is \$415,390. Of this, \$245,588 is needed to complete the evaluation of the alternatives currently envisioned, implementing the TRC recommendations, and preparing for and attending the technical and policy meetings currently envisioned.

CAMP DRESSER & MCKEE

A total of \$100,000 is included for unspecified work which may be determined by the technical committee as necessary as the alternative analysis proceeds. This effort will not be expended unless there is specific authorization given for these activities.

The remaining \$69,802 is required to prepare an estimate of the annual overflows during 1994 and to prepare the design storm runs necessary to prepare a family of curves for estimating overflow volume and duration from the City of Detroit.

Activity	Cost	Description 1
Finish Western Wayne County Sub-Model	\$21,616	Description Compile and complete the Western Wayne portion of the GDRS Model.
Complete Alternatives	\$160,528	
Meetings	\$16,892	Prepare for and conduct additional technical and policy meetings
TRC Recommendations	\$26,214	Includes review of the DCIA values, rainfall spatial variations, and meter error analysis.
Other Costs	\$20,338	Current ASI project costs as well as additional Other Direct Costs for this amendment.
Annual Estimate of Overflow	\$27,774	The overflows from the City of Detroit for the previous year will be estimated based on the available rainfall data.
Overflow Notification Calculations		Prepare the necessary design storm runs to prepare a family of curves that describe the overflow volume and duration for a range of storms.
Additional Services		Perform activities as designated by the technical committee and authorized by DWSD. This work is currently unspecified with specific work scopes needed prior to authorization of any work.

Note that we have included the "Annual Estimate of Overflow" and the "Overflow Notification Calculation" tasks in this amendment. The revised end date for CS-1049 would be June 30, 1994. All terms and conditions as well as overhead rates included in the original contract would remain in force for this amendment.

Promot on margaret annual

CAMP DRESSER & MCKEE

If you have any questions about this letter or any of the attachments, please call Mark TenBrock or me at (313) 963-1313.

Very truly yours,

CAMP DRESSER & McKEE

A. Barry Scymour, P.E., P.LS.

Senior Vice President

ABS/kak

Attachments

DWSD CS-1049 Amendment 4 Scope of Services 1-19-94

Project Completion Activities

1. Finish Western Wayne County Sub-Model	Hours	Totals
 Finalize Area Data - Gather updated area and impervious area data from communities Wayne County communities. This information will be reviewed by Wayne County. 	70 mh	
 DCIA Calculations - Coordinate Wayne County community estimates of DCIA based on flow meter analysis of available data. This data will be reviewed by Wayne County. 	50 mh	
 Revise Models - Incorporate area data from above into the Western Wayne design storm and continuous models. 	70 mh	
4. Update Results - Re-evaluate the calibration, design storm, and continuous modeling runs for the Western Wayne Models using this information from the Western Wayne update.	90 mh	280 mb
2. Complete Alternatives		
 Re-evaluate Baseline - Prepare an updated analysis of the design and continuous models based on the new input from the Western Wayne system. 	130 mh	
 Update Planned Modifications - Incorporate finalized Rouge Demo modifications into models. The first step is to finalize the design criteria for these modifications from a number of different consultants. 	130 mh	
3. Design Storm Alternative Runs - Perform the design storm runs based on these changes. These design storm runs include estimating the overflows for specific events under Phase I alternatives. Also prepare design storm runs for the rainfall spatial variation case, the West Arm Interceptor runs, and the operational optimization runs.	140 mh	
4. Compile Design Storm Results - Place the design storm information in the standard format for review by the technical committee. This includes preparation in tabular format showing all of the overflow locations as well as the summary overflow by jurisdiction.	100 mh	

DWSD CS-1049 Amendment 4 Scope of Services 1-19-94

5. Perform Continuous Runs - Prepare the continuous simulations for all the alternatives as outlined in the Alternatives Technical Memorandum 23. This includes Continuous Simulations B through H. Simulation G includes an estimated three simulations needed to define the 85% removal for the GDRS system. Simulation H will include a single optimal operational scenario. This scenario is based on the design storm simulation.

300 mh

6. Spatial Variation Investigation. Gather a continuous rainfall record from a year for up to 10 gages in the GDRS service area. This rainfall information will be gathered from the SEMCOG rainfall network. Perform continuous simulation using that information to estimate the annual overflows for a specific year. Use the baseline continuous model prepared for uniform rainfall for the same year to estimate of the reduction factor for this non-uniform rainfall distribution.

160 mh

7. Contingency Effort - Perform four additional continuous simulation runs if requested by the technical committee.

200 mh

8. Compile Continuous Results - Place the results of the continuous simulations in a form consistent with the baseline conditions output. This includes a tabulation of each of the overflow locations with the annual overflow volumes, expected overflow frequency, and expected overflow durations. In addition, tables of total overflow volumes by jurisdiction will be prepared. Prepare the WWTP operational outputs that define the total flow duration and event occurrence curves as described in Technical Memorandum 23.

220 mh

 Alternative Cost Estimates - Prepare planning level cost estimates for the different alternatives described above. These cost estimates will use local costs for construction of existing surface and tunnel storage projects, as well as other alternative storage/treatment methodologies.

340 mh

10. Prepare Report Update - Provide update sections to the Model Status report to reflect the changes in the Western Wayne County area. Produce a printing of the revised sections for the existing 50 reports as well as 20 new copies of the complete report.

360 mb

DWSD CS-1049 Amendment 4 Scope of Services

1-19-94

11. Alternatives Training - Provide training sessions on the operation of the design storm and the continuous model for the alternatives evaluation.	70 mh	2.150 m				
3. Meetings						
l Technical Meetings - These are the technical committee meetings that are needed over the remaining 6-months of the project. Estimate includes 6 additional meetings.	120 mb					
2. Outline Policy Meetings = Two additional technical meetings are anticipated as part of this project.	20 mh					
3 Prepare Presentation Materials - Prepare slides and handout packets for these sessions.	50 mh					
 Present Policy Meetings - Present the material as the Policy Meetings. 	20 mb	210 mh				
4. TRC Recommendations						
 Imperviousness Investigations - Investigate total impervious estimates throughout the GDRS collection system service area. 	80 mh					
2. DCIA Estimates - Bring the Western Wayne County DCIA estimates to closure	60 mh					
 Large Pipes Metering - Complete the large pipe flow metering analysis started for the HUFI meter site 	120 mh					
 Error Analysis Completion- Complete the consensus document between Steve Wright and ADS. 	80 mb	340 mh				
5. Annual Estimate of Overflow Frequency and Volume						
 Estimate Rainfall - Gather rainfall from previous year for gages within the City of Detroit and the surrounding area 	80-mb					
Prepare Hyetographs - Prepare annual rainfall hyetographs for these gage locations.	60 mb					
 Run Continuous Model - Run continuous model for previous year. This model will be prepared using the rainfall hyetographs described above. 	120 mb					
 Prepare Overflow Estimates - Prepare overflow estimate at each overflow location that is part of the GDRS collection system model. 	110 mh	370 mh				

DWSD CS-1049 Amendment 4 Scope of Services 1-19-94

6. Overflow Notification Calculations

1. Develop Overflow Input Criteria - Work with the spill response consultant (ECT) to determine the necessary input requirements for the plume model. This

40 mh

2. Prepare Storm Matrix - Develop storm matrix for simulation events. This will include a range of rainfall event volumes and durations. Events are expected to include 10 different rainfall volumes with three different event durations

60 mh

3. Prepare Model Input - Each of the storm event volumes and durations will be included. Also, input for three different antecedent conditions will be prepared.

120 mh

4. Perform Simulations - Perform the simulations for the storm matrix defined above. These simulations include running all 6 of the GDRS sub-models, where necessary, for establishing boundary conditions to the City of Detroit.

160 mh

5. Compile Output - The output for the GDRS system will be used to prepare a family of overflow volume duration curves. These will be used to estimate the overflow volumes, their locations, and time over which they are expected to occur. This output will also be prepared so that using the appropriate antecedent conditions, rainfall start time, rainfall end times, and runoff volume can be determined as output.

80 mh

6. Prepare Report - Prepare a report that describes the calculations performed, gives an explanation of the resulting output curves, and provides an explanation of the methodology needed to obtain the necessary outputs for the notification procedure.

110 mh 570 mh

6. Additional Services

1. Provide additional requested services. The nature of these additional services are not known at this time, but will be work requested by the technical committee. Specific authorization required prior to beginning work on any of these activities.

1,388 mb 1,388 mb

TOTAL.

5,308 mh

CDM

planners, & management Consuments

January 19, 1994

CAMP DRESSER & MCKEE

One Woodward Avenue, Suite 1500 Deerot, Michigan 48228 313 963-1313

Mr. Gary Fujita Assistant Director of Wastewater Operations 9300 Jefferson Detroit, Michigan 48209

RE:

DWSD Collection System Modeling Review of CS-1049 Out of Scope Items

Dear Mr. Fujita:

The proposed Amendment 4 of CS-1049 included a request for additional funding to cover a number of out of scope work items that either have been performed, or will be performed. These items were generated at the request of the GDRS Technical Committee, the Technical Review Committee (TRC), or by DWSD. Provided below is a listing of these out of scope items and an explanation of what was done or is planned to be performed as part of this Amendment number 4 of CS-1049:

- Rouge Valley District Base Data Initial information was incomplete and not in the completed format anticipated in the original scope of services. Substantial work was needed to review the facility data provided by numerous consultants and reduce it to a format needed for input to the model. Model calibrations and alternative analysis were performed using this data.
- Rouge Valley District Updates Review of the information supplied for the Wayne County Rouge Valley communities showed that it was out of date and not in a consistent format. Considerable coordination time was necessary to gather and review base maps supplied by the Rouge Valley Communities, reduce the information as needed, and coordinate review with these communities. In addition, the initial evaluation runs had to be re-evaluated based on this updated information.
- <u>WWTP/Suburban Statistics</u> The original scope did not address the provision of long term statistics at the DWSD WWTP and at suburban inflow points to the City of Detroit collection system. These statistics are now being included in the alternative's evaluation and the effort to perform this work added in the amendment.

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- Flow Meter Error Analysis The flow monitoring program was completed within the scope envisioned. However, review of this data showed some inconsistencies and potential problems. To review the possible data problems in this information, an error analysis was performed by TRC member Stephen Wright. Significant work has been performed to perform this work. This work, which is continuing, was recommended by the TRC.
- Flow Meter Evaluation Inconclusive data at "large pipe" metering sites has led to the re-installation of a flow meter in one of these sites, the HUF1 meter in the Hubbell sewer. CDM is providing dye testing support to establish actual flow rates understand whether extrapolation errors exist with the ADS meters in these type of installations. A portion of the work effort has been performed and a portion is yet to be completed and is included in the amendment. This work was recommended by the TRC.
- Rainfall Analysis Additional analysis of the rainfall direction and speed of storms
 was performed. This analysis included gathering NWS information on the subject
 and preparation of estimated directions and speeds. These will be used in the
 alternative analysis phase. This work was performed at the request of the TRC.
- <u>DCIA work</u> Initial estimates of impervious area were made by reviewing aerial
 photography for a number of sites throughout the DWSD service area. The
 calibration work yielded estimates of DCIA throughout the collection system area,
 as called for in the scope.
 - Additional estimates were made using continuous simulations and available overflow records at several basins. These were not included in the original scope. In addition, the amendment includes, as recommended by the TRC, review of additional aerial photographs in additional locations as well as field reconnaissance in several areas where field data shows large variances from the model predictions. Also, there will be review of flow based DCIA estimates for several sites within Wayne County as part of this amendment. Each of these work items were recommended by the TRC.
- Rainfall Analysis Review of the available rainfall data was performed to establish rainfall patterns, as called for in the original scope. Additional rainfall data will be collected to review the spatial and temporal impacts of certain alternatives as compared to a uniform rainfall. These additional spatial analysis of alternatives was not anticipated in the original scope of services. These work items were requested by the GDRS Technical Committee.

CAMP DRESSER & MCKEE

- Additional Training The original scope included model training. To perform this, three days of training was provided earlier in the project on the RUNOFF, EXTRAN, and STORM model. Training was also requested and provided for the flow metering software. This was not included in the original scope. Also, two half day training sessions are currently being provided. These training sessions were not anticipated in the original scope.
- Annual Overflow Estimate The NPDES permit calls for placing estimates of the overflow volume and frequency at each of the permitted discharge locations. This will be done for the year by using the available rainfall information from this year to drive the continuous simulation model for existing conditions and meet this permit requirement. This work element was not included in the original scope of services.
- Notification of Overflow This element is included to address the need to notify when overflows occur and the volume and duration of the expected overflow for a variety of storm events. This work element was scoped to include a series of design storm runs to establish a family of curves for storm volume and duration. This will be used to predict the overflow volume and duration. When rainfall occurs, these will be used to use the recorded rainfall volume and duration to place an estimate on the volume and duration of the expected the overflow.
- Additional Meetings Time Extension The additional work items described above will result in the project end date being extended by six months. This will result an additional six technical meetings not anticipated in the original scope. Each of these meetings includes preparation and attendance time along with preparation of minutes for these meetings. Also, the one additional Policy meeting is anticipated at the end of the project for presentation of results.

If you have any questions about these scope items, do not hesitate to call Mark TenBroek of me at (313) 963-1313.

Very truly yours.

CAMP DRESSER & MCKEE

A. Barry Saymour, P.E., P.L.S.

Senior Vice President

ABS/kak

UNITED STATES DISTRICT COURT EASTERN DISTRICT OF MICHIGAN SOUTHERN DIVISION

UNITED STATES OF AMERICA,

Plaintiff,

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Civil Action No. 77-71100 Hon. John Feikens

STATE OF MICHIGAN,

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ALL COMMUNITIES AND AGENCIES UNDER CONTRACT WITH THE CITY OF DETROIT FOR SEWAGE TREATMENT SERVICES,

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vs.

THE GREATER DETROIT CHAMBER OF COMMERCE, a Michigan non-profit corporation, and its Members.

PROOF OF SERVICE

STATE OF MICHIGAN)
)ss.
COUNTY OF WAYNE)



TO:

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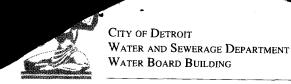
WILLIAM W. MISTEROVICH, ESQ. Macomb County Department of P.O. Box 806 Mount Clemens, Michigan 48043

MICHAEL POLSINELLI first being duly sworn, deposes and says that on the 3d day of August 1994, he served a copy of PROPOSED SUPPLEMENTAL ORDER RE: MATHEMATICAL MODEL OF SUBURBAN COLLECTION AND INTERCEPTOR SYSTEMS AND NOTICE OF SUBMISSION OF ORDER PER E.D. Mich. L.R. 58.1 upon the above-named persons after enclosing same in properly addressed, stamped envelopes and depositing same in a U.S. Mail receptacle for delivery thereon.

Subscribed and sworn to before me on this 3d day of August, 1994.

NOTARY PUBLIC, Wayne County, Mich. My Commission Expires:

LUCILLE KUKIS NOTARY PUBLIC - WAYNE COUNTY, MICH. MY COMMISSION EXPIRES 12-04-95



735 RANDOLPH STREET
DETROIT, MICHIGAN 48226-2830
PHONE 313 • 224 • 4800/224 • 4801
FAX 313 • 224 • 6067

August 3, 1994

Hon. John Feikens U.S. Courthouse Detroit, MI 48226

Re: USEPA v City of Detroit

Case No. 77-71100

Technical Task Force Order

Dear Judge Feikens:

Enclosed please find:

- 1. Supplemental Order Re: Mathematical Model Of Suburban Collection And Interceptor Systems.
- 2. Noticed Of Submission Of Order Per L.C.R. 58.1(c).
- Proof Of Service on all counsel of record.

The Supplemental Order contains the changes proposed by James Smith in the objection he filed to the original draft of the order. These documents were mailed to the Courthouse on July 1, 1994. Your clerk recently called me and informed me that they had not been received in your chambers. I am resubmitting the entire package. I do not anticipate any objections to the Supplemental Order.

Very truly yours,

Robert C. Walter

Assistant Corporation Counsel

313-224-4752

RCW/trm

enclosure

cc: Dr. Bulkley

All counsel of record